Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-08-11** **Date: 11-01-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.
Agency	:	M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference	:	EE/DD/WO/174/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-11/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-01-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.18	–
2	Finess by Air permeablity method (m^2/kg, Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಬೃಹತ್ ಬೆಂಗಳೂರು
ಪಾಲಿಕೆ, ಬೆಂ. ಉ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-08-11** **Date: 12-01-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.
Agency	:	M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference	:	EE/DD/WO/174/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-11/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	793	793	5.3	94.7	90-100
3	20 mm	4937	5730	38.2	61.8	30-70
4	10 mm	5376	11106	74.0	26.0	10-35
5	4.75 mm	3261	14367	95.8	4.2	0-5
6	Pan	633	15000	100.0	0	---

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಪಾಲಿಕೆ

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-08-11** **Date: 12-01-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.
Agency	:	M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer Reference	:	EE/DD/WO/174/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-11/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	248	248	5.0	95.0	90-100
3	10 mm	2898	3146	62.9	37.1	25-55
4	4.75 mm	1595	4741	94.8	5.2	0-10
5	Pan	259	5000	100	0	–

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ರಸ್ತೆ, ಪದ್ಮನಾಭನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-08-11** **Date: 12-01-18**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.

Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.

Customer's Reference : EE/DD/WO/174/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-01-18

Sample ID No : 2018-01-08-11/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 09-01-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	52	52	5.2	94.8	90-100	90-100	90-100	95-100
3	2.36 mm	151	203	20.3	79.7	60-95	75-100	85-100	95-100
4	1.18 mm	187	390	39.0	61.0	30-70	55-90	75-100	90-100
5	600 micron	234	624	62.4	37.6	15-34	35-59	60-79	80-100
6	300 micron	231	855	85.5	14.5	5-20	8-30	12-40	15-50
7	150 micron	67	922	92.2	7.8	0-10	0-10	0-10	0-15
8	Pan	78	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-29-06** **Date: 03/02/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.

Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.

Customer's Reference : EE/DD/WO/174/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-01-18

Sample ID No : 2018-01-29-06/09

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	27/01/2018	03/02/2018	149.85 X 150.22 X 150.65	22510	8.154	387.2	17.2	17.7
2	Drain Concrete	M20	27/01/2018	03/02/2018	150.17 X 150.38 X 150.18	22583	8.135	408.7	18.1	
3	Drain Concrete	M20	27/01/2018	03/02/2018	149.87 X 150.24 X 150.11	22516	8.147	398.5	17.7	

Note:

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All information furnished by Customer/Representative
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-08-11** **Date: 11-01-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.
Agency	:	M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference	:	EE/DD/WO/174/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-11/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-01-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.18	–
2	Finess by Air permeablity method (m^2/kg, Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-08-11** **Date: 12-01-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.
Agency	:	M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference	:	EE/DD/WO/174/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-11/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	793	793	5.3	94.7	90-100
3	20 mm	4937	5730	38.2	61.8	30-70
4	10 mm	5376	11106	74.0	26.0	10-35
5	4.75 mm	3261	14367	95.8	4.2	0-5
6	Pan	633	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-08-11** **Date: 12-01-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.
Agency	:	M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer Reference	:	EE/DD/WO/174/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-11/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	248	248	5.0	95.0	90-100
3	10 mm	2898	3146	62.9	37.1	25-55
4	4.75 mm	1595	4741	94.8	5.2	0-10
5	Pan	259	5000	100	0	–

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ಶೆ.ಉ. ರಸ್ತೆ, ಶೆಟ್ಟಿಹಳ್ಳಿ, ಬೆಂಗಳೂರು

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-01-08-11** **Date: 12-01-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.
Agency	:	M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.
Customer's Reference	:	EE/DD/WO/174/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-11/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-01-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	52	52	5.2	94.8	90-100	90-100	90-100	95-100
3	2.36 mm	151	203	20.3	79.7	60-95	75-100	85-100	95-100
4	1.18 mm	187	390	39.0	61.0	30-70	55-90	75-100	90-100
5	600 micron	234	624	62.4	37.6	15-34	35-59	60-79	80-100
6	300 micron	231	855	85.5	14.5	5-20	8-30	12-40	15-50
7	150 micron	67	922	92.2	7.8	0-10	0-10	0-10	0-15
8	Pan	78	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-01-16-09** **Date: 20-01-18**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains of abbigere Janatha Colony cross roads in ward no.12 Shettyhalli in Shettyhalli Sub division.

Agency : M/s Inchara Construction, No. 60, 4th Cross Nandhi Nagara, Hesaraghatta Bengaluru-560 090.

Customer's Reference : EE/DD/WO/174/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-01-18

Sample ID No : 2018-01-16-09/02

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 16/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.49	100.51	1.348	4475	79.4	17.7	16.5	20.6
2	Cover Slab-2	75.48	100.52	1.329	4474	82.4	18.4	17.1	21.4
3	Cover Slab-3	75.48	100.51	1.325	4474	80.1	17.9	16.7	20.8

Note:

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